

## ABSTRACT OF THE DISCLOSURE

The present invention relates to an orthogonal frequency division multiplexing (OFDM) system.

5 The present invention presents a method of compensating the subcarrier signal distortion in an OFDM system caused by multi-path fading channels by using one-tap equalizer bank, which compensates the signal distortion with remarkably reduced system complexity compared with the prior art by introducing simplified calculation procedures of calculating a tap-value of an equalizer for one subcarrier using the tap-values of the equalizers for adjacent subcarriers.